



Met Office

ClearCut™

User guide June 2011

Contents

| | |
|---|----------------|
| Introduction | 3 |
| 1. System requirements | 4 |
| 2. Browser plugins | 4 |
| <hr/> | |
| Using ClearCut™ | 5 |
| 1. Log-in and registration | 5 |
| 2. Once you are registered | 6 |
| 3. How ClearCut™ works | 7 |
| 4. Contracts with ClearCut™ forecasts | 7 |
| 5. Swing calculations | 7 |
| 6. How are the numbers calculated? | 8 |
| 7. What you will see | 9 – 11 |
| <hr/> | |
| Frequently asked questions | 12 |
| 1. I have no log-in details | 12 |
| 2. How do I subscribe to ClearCut™ Full? | 12 |
| 3. I am unable to access the ClearCut™ service? | 13 |
| <hr/> | |
| Appendix 1 : Contract Details | 14 – 19 |

Introduction

ClearCut™ is a unique weather forecasting tool tailored to the specific requirements of UK Gas and Power traders. The service provides temperature swing forecasts for seventeen of the most frequently traded gas and energy contracts.

This tool can help traders gain an edge through anticipating fluctuations in power demand.

There are two versions of ClearCut™ available:

ClearCut™ Free

You can register to view a basic version of ClearCut™ for free.

The free version contains a temperature swing forecast for:

- One energy contract.
- One gas contract.

Instructions on how to access the free version can be found on page five.

ClearCut™ Full

The full version of ClearCut™ contains:

- Temperature swing forecasts for 12 energy contracts.
- Temperature swing forecasts for five gas contracts.
- Forecaster commentary providing an overview of weather in the UK over the next ten days.

To register for ClearCut™ Full please see 'Accessing ClearCut™ Full' on page six.

Introduction

1. System requirements

For optimum viewing your computer requires the settings below:

Minimum specification:

- 1000 Mhz Processor.
- 1Gb RAM.
- Flash player 10.
- Web browser.
- Internet connection.

Recommended specification:

- 1000 Mhz Processor.
- 2 Gb RAM.
- Flash player 10.
- Internet Explorer.
- High speed broadband or better.

This service is supported in the following browser/operating system combinations:

- Microsoft Internet Explorer version 5.5 or above (Microsoft Windows/Apple Macintosh).
- Mozilla Firefox version 2.0 or above (Microsoft Windows/Apple Macintosh).

2. Browser plugins

This service requires the Adobe FlashPlayer plugin, version 10 or above.

This plugin can be obtained from www.adobe.com/go/getflashplayer

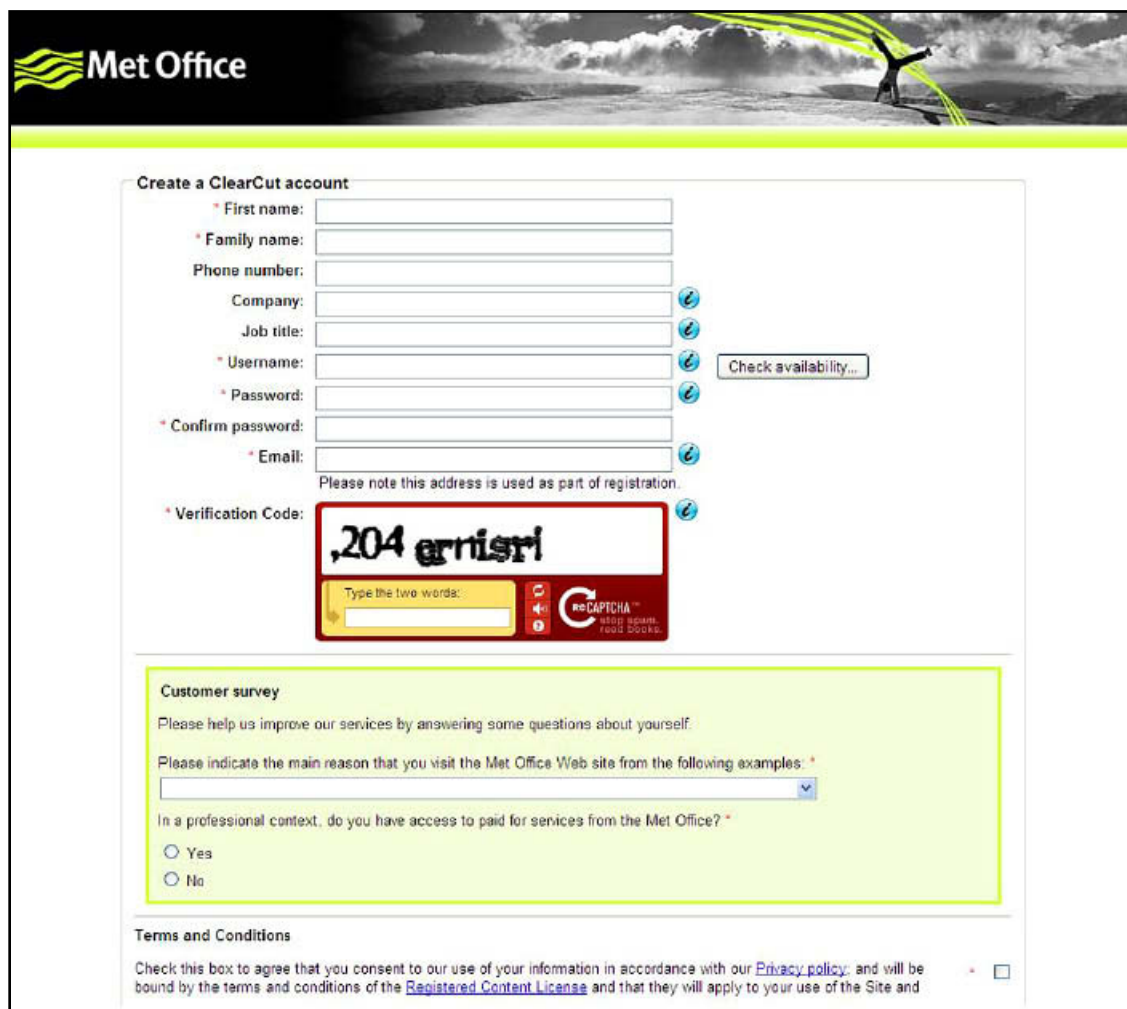
Using ClearCut™

1. Log-in and registration

Accessing ClearCut™ Free

If you are a new user

- Go to: <https://register.metoffice.gov.uk/WaveRegistrationClient/register.do?service=clearcut>
- When you first click on this link you will see a registration screen like this:



The screenshot shows the Met Office registration page for ClearCut. At the top is the Met Office logo and a banner image of a person on a cliff. The main section is titled "Create a ClearCut account" and contains several input fields: First name, Family name, Phone number, Company, Job title, Username, Password, Confirm password, and Email. There is a "Check availability..." button next to the Username field. Below the Email field is a note: "Please note this address is used as part of registration." A ReCAPTCHA verification code is displayed, showing the words "204" and "arnisri". Below the registration form is a "Customer survey" section with a dropdown menu for "Please indicate the main reason that you visit the Met Office Web site from the following examples:" and a question "In a professional context, do you have access to paid for services from the Met Office?" with radio buttons for "Yes" and "No". At the bottom is a "Terms and Conditions" section with a checkbox for agreement.

- You must register your name and email address, and complete the customer survey to access ClearCut™.
- As part of registration you will be directed to the Registered Content License, which you must agree to before clicking on the Register button.
- You will then be sent an email confirming your user name and password with which you can log in.

Using ClearCut™

If you have an existing Met Office account

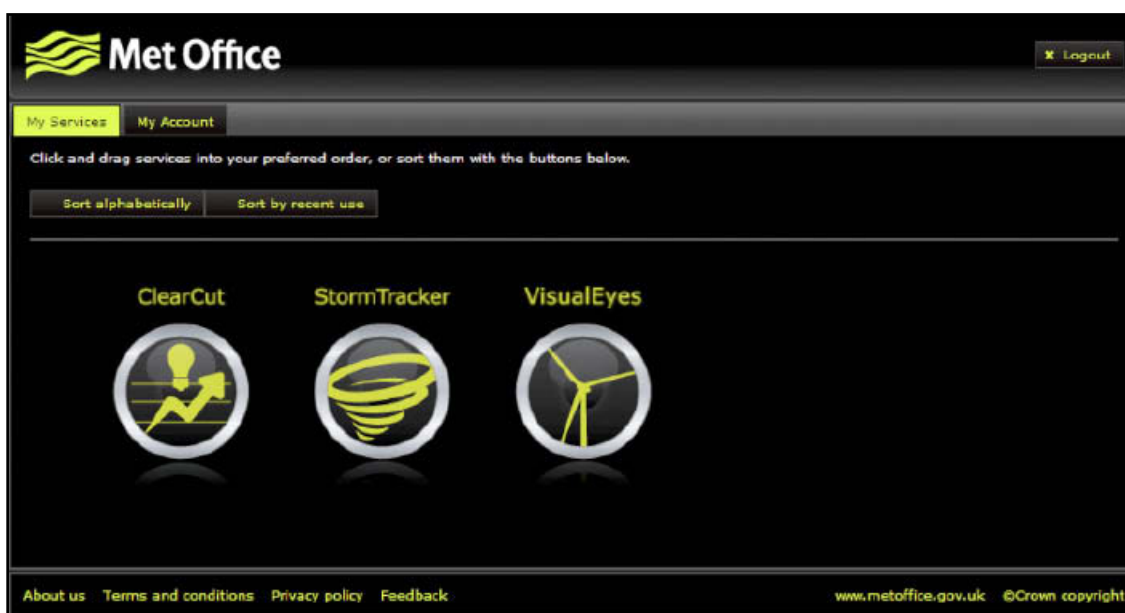
If you are already have an existing account for another Met Office product, go to:

<https://register.metoffice.gov.uk/register/addservice/full?service=clearcut&orUrl=/premium/myservices>

Once registered, go to www.metoffice.gov.uk/premium/myservices to log-in to the service.

2. Once you are registered

- Close your browser and re-open it, typing in: www.metoffice.gov.uk/premium/myservices
- This will now direct you to the log-on screen.
- Use your user name and password to log-in.



- You will see a screen like the one above.
- Click on the ClearCut™ symbol.

Accessing ClearCut™ Full

ClearCut™ Full is a paid for service. To register please contact your dedicated Met Office Account Manager or use one of the methods below:

Email: consulting@metoffice.gov.uk

Telephone: 0870 900 0100 or +44 1392 885680

Post: Met Office, FitzRoy Road, Exeter, Devon, EX1 3PB

Setting up your subscription to enable access to the full forecast content will take up to five days, so please allow enough time for this.

Registration for ClearCut™ Full can only be arranged by contacting us using the above details.

Using ClearCut™

3. How ClearCut™ works

ClearCut™ provides a forecast of a *representative temperature* for a number of commonly traded UK power and gas futures contracts.

This forecast aggregates temperatures for the whole UK for the time periods covered by the contract, and provides information on how the forecast compares to previous forecasts and observations.

4. Contracts with ClearCut™ forecasts

ClearCut™ provides forecasts for the following UK power and gas futures contracts:

- Day Ahead UK Baseload Power
- Day Ahead UK Peaks (3,4,5) Power
- Day Ahead UK Overnights (1, 2) Power
- Day Ahead UK Block 5 Power
- Day Ahead UK Block 6 Power
- Weekend UK Baseload Power
- Weekend UK Peaks (3,4,5) Power
- Week Ahead UK Baseload Power
- Week Ahead UK Peaks (3,4,5) Power
- Week Ahead UK Overnights (1, 2) Power
- Week Ahead UK Block 5 Power
- Week Ahead UK Block 6 Power
- Day Ahead UK Gas
- Balance of Week UK Gas
- Weekend Ahead UK Gas
- Weekday Next Week UK Gas
- Forward Weekend UK Gas

For further definitions of these contracts, please see Appendix 1 – Contract Details.

5. Swing calculations

There are two different swing values available for forecasts:

Forecast swing

The forecast swing values show how the forecast has changed since the last issue. If the swing value is positive, then the current forecast is warmer than the last issue; if it is negative, colder.

Where there has not previously been a forecast for a contract, i.e. on the first day it is issued, no swing value will be given.

For the first issue of Day Ahead contracts, forecast swing is calculated against the last value for the previous day's Day Ahead contract.

Using ClearCut™

Last observed swing

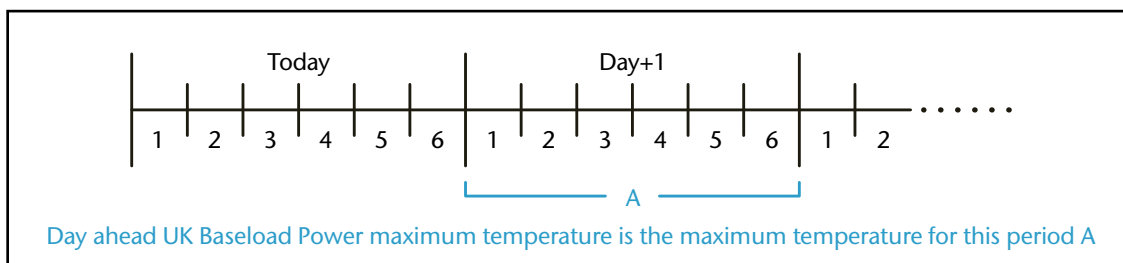
The last observed swing values show how the current forecast compares to the recent past. For example, the last observed swing values for Week Ahead UK Baseload Power will compare the forecast for the week ahead to the observed weather from last week.

If the swing value is positive, then the current forecast is warmer than the previous observations; if it is negative, colder. Details of which observations are used to calculate these swing values are in 'Appendix 1 – Contract Details'.

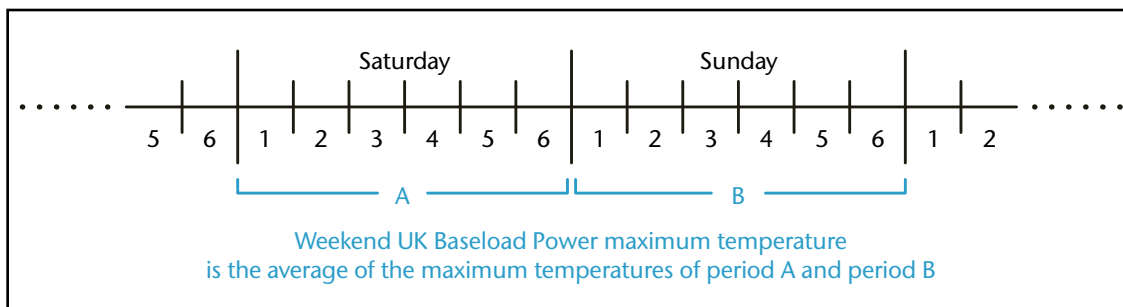
6. How are the numbers calculated?

ClearCut™ takes temperatures from a range of sites in the UK and weights them in proportion to the site influence on power demand. The weighted average of these sites then gives us a useful proxy for UK temperature impact on power demand.

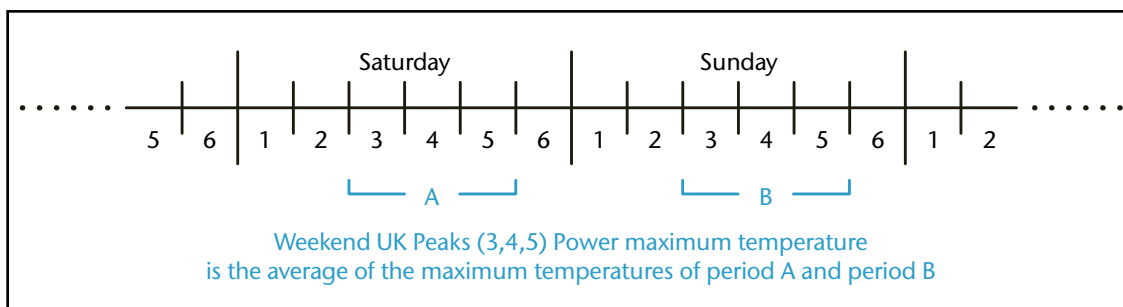
Where the time period represented in the contract is contiguous and shorter than one day, for example in Day Ahead UK Baseload Power, the maximum and minimum temperatures are for the whole period.



Where the time period represented in the contract is contiguous but longer than a single day, for example in Week Ahead UK Baseload Power, the maximum and minimum temperatures are the average of each daily maximum and minimum temperature.



Where the time period represented in the contract is non-contiguous, for example in Week Ahead UK Peaks (3,4,5) Power, the maximum and minimum temperatures are the average of each contiguous period.



Changes in this representative temperature can be used to inform understanding of potential changes in energy demand in the UK.

Using ClearCut™

7. What you will see

The screenshot shows the Met Office ClearCut™ BETA interface. Callout 1 points to the 'Latest Forecast Time: 0631' and 'Latest Forecast Date: Friday 03 June 2011' text. Callout 2 points to the table below. Callout 3 points to the 'Home' icon, callout 4 to the 'Help' icon, callout 5 to the 'User Control Panel' icon, and callout 6 to the 'Log Out' icon.

| Contract Name | Max Temp °C | Min Temp °C | Max Temp Forecast Swing °C | Min Temp Forecast Swing °C | Max Temp Last Observed Swing °C | Min Temp Last Observed Swing °C |
|-------------------------------------|-------------|-------------|----------------------------|----------------------------|---------------------------------|---------------------------------|
| Day Ahead UK Baseload Power | 22.0 | 12.2 | -0.1 | -0.8 | +8.5 | +2.4 |
| Day Ahead UK Peaks (3,4,5) Power | 18.9 | 12.2 | -3.2 | -3.0 | +6.2 | +2.4 |
| Day Ahead UK Overnights (1,2) Power | 22.0 | 18.9 | +6.7 | +5.8 | +8.6 | +8.4 |

1. Service information messages

Messages will be displayed here when adjustments have had to be made to the standard forecast. For example:

*“No new data – the service is displaying the previous forecast” or
“No new data – the service is displaying a time-shifted forecast”*

2. Product update time

The product is scheduled to update at 0631 UTC and 1431 UTC each weekday.

3. PDF generation

This will generate a PDF document of the current ClearCut™ forecast in a new browser window that can be printed or emailed.

4. Link to User Guide

This will open a PDF copy of the ClearCut™ user guide in a new browser window.

5. Link to user control panel

This will take you to the Met Office My Services homepage where you can view your subscribed services and amend your account details.

6. Log out

This will log you out of ClearCut™ and return you to the Met Office services login page.

Using ClearCut™

| Contract Name | Max Temp °C | Min Temp °C | Max Temp Forecast Swing °C | Min Temp Forecast Swing °C | Max Temp Last Observed Swing °C | Min Temp Last Observed Swing °C |
|-------------------------------------|-------------|-------------|----------------------------|----------------------------|---------------------------------|---------------------------------|
| 1 Day Ahead UK Baseload Power | 22.0 | 12.2 | -0.1 | -0.8 | +8.5 | +2.4 |
| Day Ahead UK Peaks (3,4,5) Power | 18.9 | 12.2 | -3.2 | -3.0 | +6.2 | +2.4 |
| Day Ahead UK Overnights (1,2) Power | 22.0 | 18.9 | +6.7 | +5.9 | +8.6 | +6.4 |
| Day Ahead UK Block 5 Power | 14.3 | 12.2 | -7.3 | -6.9 | +3.1 | +2.4 |
| Day Ahead UK Block 8 Power | 19.3 | 14.3 | +0.2 | 0.0 | +5.8 | +3.1 |
| Weekend UK Baseload Power | 17.9 | 9.0 | -0.3 | -1.0 | +1.7 | -2.5 |
| Weekend UK Peaks (3,4,5) Power | 15.2 | 9.0 | -3.0 | -3.0 | +1.0 | -2.5 |
| Week Ahead UK Baseload Power | 15.7 | 9.2 | -0.4 | -0.1 | +0.2 | +0.7 |

1. Contract description

For full details of the contracts that ClearCut™ forecasts, see Appendix 1: Contract Details.

2. Maximum and minimum temperature calculations

For details of how these values are calculated see section five 'How are these numbers calculated?' above.

3. Swing values

For details of how these values are calculated see section four 'Swing calculations' above.

Using ClearCut™

Gas Forward Weekend

| | | | | | |
|------|-----|------|------|-----|------|
| 16.1 | 9.8 | +0.2 | -0.1 | 0.0 | -1.7 |
|------|-----|------|------|-----|------|

Forecaster Commentary
Friday 03 June 2011 to Saturday 12 June 2011

Outlook: High pressure over the country on Friday is expected to gradually decline over the weekend as a weak cold front moves over northern Britain. Thunderstormy trough over the continent likely to move into SE England on Sunday.

Rainfall: Some rain and drizzle over the far north and northwest of Scotland on Friday, mainly later in the day, otherwise a dry day elsewhere. Occasional rain or showers over the northern half of Britain on Saturday, becoming drier on Sunday, though perhaps with showers continuing over Northern Ireland. Outbreaks of thundery rain over SE England on Sunday, locally heavy in some places.

Wind: Mostly light to moderate winds over northern Britain. Moderate to Fresh NE winds in the south, becoming strong over southeast England on Sunday.

Cloud Cover: Rather cloudy in the far north and northwest of Scotland on Friday with sunny periods elsewhere. mostly cloudy over northern Britain on Saturday with bright or sunny periods in the south. Some bright spells on Sunday though often rather cloudy. After a generally warm day on Friday, becoming cooler from the north over the weekend.

Forecast Certainty: High for decline of high pressure, likelihood of rain in places, and a cooling trend for temperature. Low for thunderstorms over SE England

Issued at 0434 on Friday 03 June 2011
bill.flanders

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1. Forecaster commentary

Forecaster commentary is only available in the full version of ClearCut™, and is updated daily by a Met Office forecaster. It provides an overview of forecasted UK weather for the next ten days.

2. Links to other Met Office web pages

These links will open the following pages in another window:

- About us – information about the Met Office as an organisation, out structure and purpose.
- Terms and conditions – general conditions for the use of Met Office web services.
For the full version of the service these may be superseded by the subsequently agreed terms of any contract with the Met Office.
- Privacy policy – information about how the Met Office will use any personal information provided and our responsibilities under the Data Protection Act (1998).
- Feedback – this link should be used to provide feedback on ClearCut™.
- Contact us – general contact details for the Met Office. For ClearCut™ specific details, you can also speak to your dedicated Met Office account manager, email consulting@metoffice.gov.uk or call 0870 900 0100 or +44 1392 885680.
- News – latest news from the Met Office.

Frequently asked questions

1. I have no log-in details (user name or password)?

If you have forgotten, lost or have not been sent your log-in details, your user name or password, please contact the customer centre by clicking on the link reading “customer centre” on the log-in screen beneath “Forgotten password?”. Alternatively you can contact us as below:

By phone or fax from the UK

Tel: 0870 900 0100 or 01392 885680

Fax: 0870 900 5050 or 01392 885681

By phone or fax outside the UK

Tel: +44 1392 885680

Fax: +44 1392 885681

By email

enquiries@metoffice.gov.uk

By social media

We can be found on Twitter, Facebook, Flickr and YouTube.

By post

Met Office
FitzRoy Road
Exeter
Devon
EX1 3PB
United Kingdom

2. How do I subscribe to ClearCut™ Full?

ClearCut™ Full is a paid for service. To register for the advanced service subscription please contact your dedicated Met Office Account Manager or use the method below:

Email: consulting@metoffice.gov.uk

Telephone: 0870 900 0100 or +44 1392 885680

Post: Met Office, FitzRoy Road, Exeter, Devon, EX1 3PB

Setting up your subscription to enable access to the full forecast content will take up to five days, so please allow enough time for this.

Once registered:

- Launch your Internet browser.
- Type www.metoffice.gov.uk/premium/myservices, this will launch and present your services page.
- Click on the icon for ClearCut™ — this will take you through to the service.

Frequently asked questions

3. I am unable to access the ClearCut™ service

Check that your computer has meets the minimum requirements:

- 1000 Mhz Processor
- 1GB RAM
- Flash Player 10
- Web browser
- Internet connection

Browser plugins

This service requires the Adobe FlashPlayer plugin, version 10 or above.

This plugin can be obtained from www.adobe.com/go/getflashplayer

If you are still experiencing problems, please contact the customer centre on the details above.

Appendix 1: Contract details

Contract name: Day Ahead UK Baseload Power

Contract term: Day Ahead (2300 GMT day+0 to 2300 GMT day+1)

Definition: Next WD 1/2/3/4/5/6

On Fridays, 2300 GMT day+2 (Sunday) to 2300 GMT day+3

Where the weekend is followed or preceded by a bank holiday, the next non-bank holiday will be used
i.e. 2300 GMT day+3 (Monday) to 2300 GMT day+4

Swing against last period is comparison to the same weekday in the previous week.

Contract name: Day ahead UK Overnights (1,2) Power

Contract term: Day Ahead Overnight (2300 GMT day+0 to 0700 GMT day+1)

Definition: Next WD 1/2

On Fridays, 2300 GMT day+2 (Sunday) to 0700 GMT day+3

Where the weekend is followed or preceded by a bank holiday, the next non-bank holiday will be used
i.e. 2300 GMT day+3 (Monday) to 0700 GMT day+4

Swing against last period is comparison to the same weekday in the previous week.

Contract name: Day Ahead UK Peaks (3,4,5) Power

Contract term: From 0700 GMT day+1 to 1900 GMT day+1

Definition: Next WD 3/4/5

On Fridays, 0700 GMT day+3 (Monday) to 1900 GMT day+3

Where the weekend is followed or preceded by a bank holiday, the next non-bank holiday will be used
i.e. 0700 GMT day+4 (Tuesday) to 1900 GMT day+4

Swing against last period is comparison to the same weekday in the previous week.

Appendix 1: Contract details

Contract name: Day Ahead UK Block 5 Power

Contract term: From 1500 GMT day+1 to 1900 GMT day +1

Definition: Next WD 5

On Fridays, 1500 GMT day+3 (Monday) to 1900 GMT day+3

Where the weekend is followed or preceded by a bank holiday, the next non-bank holiday will be used
i.e. 1500 GMT day+4 (Tuesday) to 1900 GMT day+4

Swing against last period is comparison to the same weekday in the previous week.

Contract name: Day Ahead UK Block 6 Power

Contract term: From 1900 GMT day+1 to 2300 GMT day +1

Definition: Next WD 6

On Fridays, 1900 GMT day+3 (Monday) to 2300 GMT day+3

Where the weekend is followed or preceded by a bank holiday, the next non-bank holiday will be used
i.e. 1900 GMT day+4 (Tuesday) to 2300 GMT day+4

Swing against last period is comparison to the same weekday in the previous week.

Contract name: Weekend UK Baseload Power

Contract term: Mean of

Friday 2300 GMT to Saturday 2300 GMT;

Saturday 2300 GMT to Sunday 2300 GMT

Definition: Next WE 1/2/3/4/5/6

Where the weekend is followed or preceded by a bank holiday, in which case this day is added to the weekend i.e.

Mean of

Friday 2300 GMT to Saturday 2300 GMT;

Saturday 2300 GMT to Sunday 2300 GMT;

Sunday 2300 GMT to Monday 2300 GMT

Swing against last period is a comparison to the previous weekend.

Appendix 1: Contract details

Contract name: Weekend UK Peaks (3,4,5) Power

Contract term: Mean of

Saturday 0700 to Saturday 1900 GMT;
Sunday 0700 GMT to Sunday 1900 GMT

Definition: Next WE 3/4/5

Where the weekend is followed or preceded by a bank holiday, in which case this day is added to the weekend i.e.

Mean of
Friday 0700 GMT to Friday 1900 GMT
Saturday 0700 to Saturday 1900 GMT;
Sunday 0700 GMT to Sunday 1900 GMT

Swing against last period is comparison to the previous weekend.

Contract name: Week Ahead UK Baseload Power

Contract term: Mean of

Sunday 2300 GMT to Monday 2300 GMT;
Monday 2300 GMT to Tuesday 2300 GMT;
Tuesday 2300 GMT to Wednesday 2300 GMT;
Wednesday 2300 GMT to Thursday 2300 GMT;
Thursday 2300 GMT to Friday 2300 GMT;

Definition: WD 1/2/3/4/5/6

Where the weekend begins or ends in a bank holiday, this day will be excluded from the week.

Swing against last period is a comparison against the previous week.

Appendix 1: Contract details

Contract name: Week Ahead UK Overnights (1,2) Power

Contract term: Mean of

Sunday 2300 GMT to Monday 0700 GMT;
Monday 2300 GMT to Tuesday 0700 GMT;
Tuesday 2300 GMT to Wednesday 0700 GMT;
Wednesday 2300 GMT to Thursday 0700 GMT;
Thursday 2300 GMT to Friday 0700 GMT;

Definition: WD 1/2

Where the weekend begins or ends in a bank holiday, this day will be excluded from the week.

Swing against last period is a comparison against the previous week.

Contract name: Week Ahead UK Peaks (3,4,5) Power

Contract term: Mean of

Monday 0700 GMT to Monday 1900 GMT;
Tuesday 0700 GMT to Tuesday 1900 GMT;
Wednesday 0700 GMT to Wednesday 1900 GMT;
Thursday 0700 GMT to Thursday 1900 GMT;
Friday 0700 GMT to Friday 1900 GMT;

Definition: WD 3/4/5

Where the weekend begins or ends in a bank holiday, this day will be excluded from the week.

Swing against last period will be a comparison against the previous week.

Appendix 1: Contract details

Contract name: Week Ahead UK Block 5 Power

Contract term: Mean of

Monday 1500 GMT to Monday 1900 GMT;
Tuesday 1500 GMT to Tuesday 1900 GMT;
Wednesday 1500 GMT to Wednesday 1900 GMT;
Thursday 1500 GMT to Thursday 1900 GMT;
Friday 1500 GMT to Friday 1900 GMT;

Definition: WD 5

Where the weekend begins or ends in a bank holiday, this day will be excluded from the week.

Swing against last period will be a comparison against the previous week.

Contract name: Week Ahead UK Block 6 Power

Contract term: Mean of

Monday 1500 GMT to Monday 1900 GMT;
Tuesday 1500 GMT to Tuesday 1900 GMT;
Wednesday 1500 GMT to Wednesday 1900 GMT;
Thursday 1500 GMT to Thursday 1900 GMT;
Friday 1500 GMT to Friday 1900 GMT;

Definition: WD 6

Where the weekend begins or ends in a bank holiday, this day will be excluded from the week.

Swing against last period will be a comparison against the previous week.

Appendix 1: Contract details

Day Ahead UK Gas

0600 GMT day+1 to 0600 GMT day+2

On Fridays, 0600 GMT day+3 (Monday) to 0600 GMT day+4

Where the weekend is followed or preceded by a bank holiday, the next non-bank holiday will be used i.e. 0600 GMT day+4 (Tues) to 0600 GMT day+5

Swing against last period will be comparison to the same weekday in the previous week.

Balance of Week UK Gas

0600 GMT day+1 to 0600 GMT Saturday.

Where the weekend is preceded by a bank holiday, the week ends 0600 on the bank holiday (i.e. 0600 GMT day+1 to 0600 GMT Friday).

There is no balance of week issued on where the current next day is a bank holiday or weekend.

Swing against last period will be comparison to the same weekday's issue in the previous week.

Weekend Ahead UK Gas

0600 GMT Saturday to 0600 GMT Monday.

Where the weekend is preceded or followed by a bank holiday, the bank holiday will be included in the weekend.

Swing against last period will be comparison to the previous weekend.

Week Ahead UK Gas

0600 GMT Monday to 0600 GMT Saturday.

Where the weekend is preceded or followed by a bank holiday, the bank holiday is not included in the week.

Forward weekend UK Gas

The weekend following the weekend ahead. 0600 GMT Saturday to 0600 GMT Monday.

Where the weekend is preceded or followed by a bank holiday, the bank holiday will be included in the weekend.

Swing against last period will be comparison to the previous weekend.

